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NASA Procedural Requirements

COMPLIANCE IS MANDATORY

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Subject: Security of Information Technology

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Chapter 9 System Interconnectivity

9.1 Interconnected Systems

9.1.1 A system interconnection is defined as the direct connection of two or more IT systems for sharing data and other information resources. NIST SP 800-47, Security Guide for Interconnecting Information Technology Systems, provides guidance for planning, establishing, maintaining, and terminating interconnections between IT systems that are owned and operated by different organizations.

9.1.2 NASA shall follow the NIST "life-cycle management" approach for interconnecting IT systems, with an emphasis on security. The four phases of the interconnection life cycle that are addressed in NIST SP 800-47 are: (1) Planning the interconnection, (2) Establishing the interconnection, (3) Maintaining the interconnection, and (4) Disconnecting the interconnection.

9.2 Interconnectivity Requirements

9.2.1 All NASA SSPs shall document written Interconnection Security Agreement(s), in accordance with NIST SP 800-47, System Interconnectivity, Appendix A, which documents the technical and security control requirements of the interconnection.

9.2.2 All NASA SSPs shall include, by reference or inclusion, an MOU/MOA, in accordance with NIST SP 800-47, Appendix B, which defines the participating parties'

responsibilities. All MOU/MOA agreements for interconnecting systems shall contain technical and security control requirements per NIST SP 800-47 and the controls covered in the applicable SSPs.

9.2.3 All NASA SSPs shall include a System Interconnection Implementation Plan, in accordance with NIST SP 800-47, Appendix C, which describes the purpose and scope of the interconnection implementation plan, including:

- a. Certification and accreditation process of the system.
- b. Security controls of the system.
- c. Recovery and contingency planning for the function.
- d. Procedures for reporting and responding to IT security incidents to all participating interconnected systems.

9.3 Additional System Interconnectivity References

NPD 1440.6, NASA Records Management.

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